

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P332682-935

Luminaire Tested: **SA4XXDIP-C1195D590U935-4F0-1E-UDD-D**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332682-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C1195D590U935-4F0-1E-UDD-D
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, DROP SATIN WHITE DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

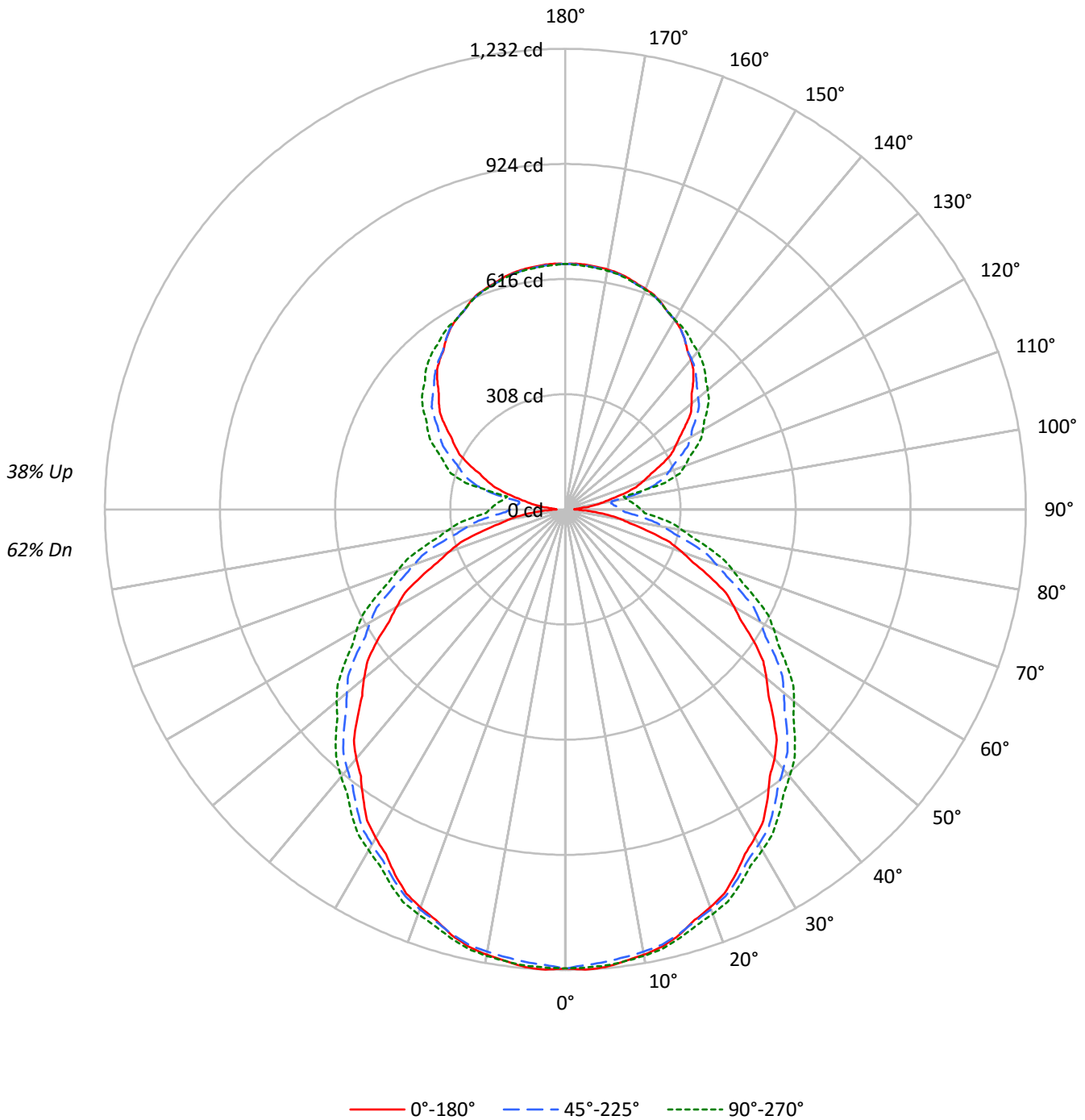
Lumens per Lamp: N/A
Luminaire Lumens: 6218.3 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.08')
CIE Type: Semi-Direct

Input Watts (W): 55.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332682-935
CATALOG NUMBER: SA4XXDIP-C1195D590U935-4F0-1E-UDD-D

Luminous Intensity Polar Plot





TEST NUMBER: P332682-935

CATALOG NUMBER: SA4XXDIP-C1195D590U935-4F0-1E-UDD-D

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 110 | 110 | 110 | 110 | 103 | 103 | 103 | 103 | 90 | 90 | 90 | 78 | 78 | 78 | 67 | 67 | 67 | 62 |
| 1 | 99 | 94 | 90 | 86 | 93 | 88 | 84 | 81 | 77 | 74 | 72 | 67 | 65 | 63 | 58 | 56 | 54 | 50 |
| 2 | 90 | 82 | 75 | 69 | 84 | 77 | 70 | 65 | 67 | 62 | 58 | 58 | 55 | 51 | 50 | 47 | 45 | 41 |
| 3 | 82 | 71 | 63 | 57 | 76 | 67 | 60 | 54 | 59 | 53 | 48 | 51 | 47 | 43 | 44 | 40 | 38 | 34 |
| 4 | 75 | 63 | 54 | 48 | 69 | 59 | 51 | 45 | 52 | 46 | 41 | 45 | 40 | 36 | 39 | 35 | 32 | 29 |
| 5 | 68 | 56 | 47 | 41 | 64 | 53 | 45 | 39 | 46 | 40 | 35 | 40 | 35 | 31 | 35 | 31 | 28 | 25 |
| 6 | 63 | 50 | 41 | 35 | 59 | 47 | 39 | 34 | 42 | 35 | 30 | 36 | 31 | 27 | 32 | 27 | 24 | 21 |
| 7 | 58 | 45 | 37 | 31 | 54 | 43 | 35 | 29 | 38 | 31 | 27 | 33 | 28 | 24 | 29 | 25 | 21 | 19 |
| 8 | 54 | 41 | 33 | 27 | 50 | 39 | 31 | 26 | 34 | 28 | 24 | 30 | 25 | 21 | 26 | 22 | 19 | 17 |
| 9 | 50 | 37 | 30 | 24 | 47 | 35 | 28 | 23 | 31 | 25 | 21 | 28 | 23 | 19 | 24 | 20 | 17 | 15 |
| 10 | 47 | 34 | 27 | 22 | 44 | 33 | 26 | 21 | 29 | 23 | 19 | 26 | 21 | 17 | 23 | 18 | 16 | 14 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 9912 | 9912 | 9912 |
| 5° | 9942 | 9687 | 9715 |
| 10° | 9882 | 9528 | 9521 |
| 15° | 9793 | 9345 | 9294 |
| 20° | 9660 | 9143 | 9072 |
| 25° | 9509 | 8916 | 8829 |
| 30° | 9346 | 8690 | 8579 |
| 35° | 9161 | 8459 | 8360 |
| 40° | 9014 | 8239 | 8132 |
| 45° | 8795 | 8036 | 7936 |
| 50° | 8610 | 7802 | 7728 |
| 55° | 8420 | 7582 | 7486 |
| 60° | 8121 | 7301 | 7265 |
| 65° | 7793 | 6999 | 6992 |
| 70° | 7397 | 6655 | 6676 |
| 75° | 6845 | 6278 | 6390 |
| 80° | 6233 | 5915 | 6107 |
| 85° | 5446 | 5591 | 5943 |



TEST NUMBER: P332682-935

CATALOG NUMBER: SA4XXDIP-C1195D590U935-4F0-1E-UDD-D

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 116.3 | 1.9 |
| 10°-20° | 333.1 | 5.4 |
| 20°-30° | 503.7 | 8.1 |
| 30°-40° | 609.4 | 9.8 |
| 40°-50° | 644.3 | 10.4 |
| 50°-60° | 606.4 | 9.8 |
| 60°-70° | 503.1 | 8.1 |
| 70°-80° | 353.4 | 5.7 |
| 80°-90° | 201.7 | 3.2 |
| 90°-100° | 141.1 | 2.3 |
| 100°-110° | 231.0 | 3.7 |
| 110°-120° | 332.9 | 5.4 |
| 120°-130° | 381.0 | 6.1 |
| 130°-140° | 386.4 | 6.2 |
| 140°-150° | 350.8 | 5.6 |
| 150°-160° | 280.6 | 4.5 |
| 160°-170° | 181.0 | 2.9 |
| 170°-180° | 62.4 | 1.0 |
| 0°-30° | 953.1 | 15.3 |
| 0°-40° | 1562.5 | 25.1 |
| 0°-60° | 2813.1 | 45.2 |
| 0°-90° | 3871.2 | 62.3 |
| 90°-120° | 704.9 | 11.3 |
| 90°-150° | 1823.2 | 29.3 |
| 90°-180° | 2347.0 | 37.7 |
| 0°-180° | 6218.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1228 | 1228 | 1228 | 1228 | 1228 | |
| 5° | 1229 | 1225 | 1215 | 1226 | 1225 | 117 |
| 15° | 1178 | 1179 | 1176 | 1187 | 1186 | 332 |
| 25° | 1078 | 1086 | 1090 | 1105 | 1107 | 496 |
| 35° | 943 | 959 | 973 | 992 | 997 | 590 |
| 45° | 786 | 813 | 839 | 861 | 869 | 608 |
| 55° | 616 | 646 | 686 | 712 | 722 | 549 |
| 65° | 426 | 470 | 517 | 550 | 562 | 422 |
| 75° | 236 | 288 | 345 | 382 | 396 | 252 |
| 85° | 73 | 131 | 192 | 232 | 248 | 78 |
| 90° | 24 | 84 | 147 | 188 | 202 | 16 |
| 95° | 45 | 75 | 130 | 169 | 183 | 49 |
| 105° | 160 | 192 | 244 | 280 | 276 | 169 |
| 115° | 284 | 300 | 342 | 372 | 382 | 280 |
| 125° | 394 | 396 | 428 | 454 | 464 | 351 |
| 135° | 484 | 484 | 495 | 517 | 527 | 373 |
| 145° | 556 | 556 | 556 | 565 | 572 | 348 |
| 155° | 609 | 609 | 608 | 609 | 608 | 281 |
| 165° | 642 | 640 | 640 | 643 | 639 | 181 |
| 175° | 657 | 654 | 654 | 658 | 653 | 63 |
| 180° | 657 | 657 | 657 | 657 | 657 | |



TEST NUMBER: P332682-935

CATALOG NUMBER: SA4XXDIP-C1195D590U935-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 |
| 2.5° | 1232.2 | 1231.4 | 1230.7 | 1229.9 | 1229.2 | 1227.9 | 1225.9 | 1224.0 | 1222.0 | 1220.0 | 1221.8 |
| 5° | 1229.1 | 1228.2 | 1227.3 | 1226.4 | 1225.5 | 1223.9 | 1221.8 | 1219.6 | 1217.5 | 1215.4 | 1217.8 |
| 7.5° | 1218.7 | 1218.1 | 1217.5 | 1217.0 | 1216.5 | 1215.3 | 1213.6 | 1211.8 | 1210.0 | 1208.2 | 1211.0 |
| 10° | 1209.9 | 1209.5 | 1209.3 | 1208.9 | 1208.7 | 1207.7 | 1206.2 | 1204.7 | 1203.2 | 1201.6 | 1204.4 |
| 12.5° | 1197.7 | 1197.7 | 1197.7 | 1197.6 | 1197.6 | 1197.0 | 1195.9 | 1194.9 | 1193.9 | 1192.8 | 1195.3 |
| 15° | 1178.3 | 1178.5 | 1178.9 | 1179.1 | 1179.5 | 1179.1 | 1178.3 | 1177.3 | 1176.4 | 1175.5 | 1178.3 |
| 17.5° | 1151.6 | 1152.5 | 1153.4 | 1154.3 | 1155.2 | 1155.6 | 1155.5 | 1155.2 | 1155.0 | 1154.9 | 1157.7 |
| 20° | 1132.9 | 1133.8 | 1134.7 | 1135.7 | 1136.5 | 1137.1 | 1137.5 | 1137.8 | 1138.1 | 1138.4 | 1141.4 |
| 22.5° | 1112.0 | 1113.1 | 1114.3 | 1115.4 | 1116.6 | 1117.5 | 1118.0 | 1118.6 | 1119.1 | 1119.6 | 1122.7 |
| 25° | 1077.9 | 1079.7 | 1081.6 | 1083.4 | 1085.2 | 1086.6 | 1087.5 | 1088.4 | 1089.3 | 1090.3 | 1093.6 |
| 27.5° | 1039.9 | 1042.7 | 1045.3 | 1048.0 | 1050.7 | 1052.7 | 1054.1 | 1055.6 | 1057.0 | 1058.3 | 1061.4 |
| 30° | 1014.6 | 1017.1 | 1019.5 | 1022.0 | 1024.4 | 1026.7 | 1028.8 | 1031.0 | 1033.1 | 1035.3 | 1038.6 |
| 32.5° | 987.1 | 990.1 | 993.0 | 995.9 | 998.8 | 1001.5 | 1003.9 | 1006.3 | 1008.7 | 1011.1 | 1014.9 |
| 35° | 943.1 | 946.8 | 950.5 | 954.2 | 957.8 | 961.1 | 964.2 | 967.2 | 970.3 | 973.4 | 977.7 |
| 37.5° | 898.9 | 903.1 | 907.3 | 911.5 | 915.8 | 919.7 | 923.5 | 927.3 | 931.1 | 934.9 | 939.3 |
| 40° | 870.3 | 874.3 | 878.2 | 882.2 | 886.1 | 890.3 | 894.6 | 898.9 | 903.1 | 907.4 | 912.0 |
| 42.5° | 837.3 | 841.7 | 846.2 | 850.7 | 855.1 | 859.9 | 864.9 | 869.9 | 874.9 | 879.9 | 885.0 |
| 45° | 786.4 | 792.2 | 798.1 | 803.8 | 809.6 | 815.5 | 821.2 | 827.1 | 832.8 | 838.7 | 843.9 |
| 47.5° | 737.7 | 743.7 | 749.8 | 755.7 | 761.7 | 768.1 | 774.8 | 781.5 | 788.2 | 795.0 | 800.3 |
| 50° | 702.6 | 709.3 | 716.0 | 722.7 | 729.4 | 736.2 | 742.9 | 749.6 | 756.3 | 763.0 | 769.1 |
| 52.5° | 667.4 | 674.1 | 680.8 | 687.5 | 694.2 | 701.5 | 709.1 | 716.9 | 724.5 | 732.3 | 738.4 |
| 55° | 616.0 | 622.3 | 628.8 | 635.2 | 641.6 | 649.4 | 658.6 | 667.7 | 676.9 | 686.0 | 692.2 |
| 57.5° | 558.4 | 566.5 | 574.4 | 582.3 | 590.2 | 598.7 | 607.9 | 617.0 | 626.1 | 635.2 | 642.5 |
| 60° | 521.1 | 529.0 | 536.9 | 544.9 | 552.8 | 561.9 | 572.0 | 582.0 | 592.1 | 602.2 | 609.2 |
| 62.5° | 484.7 | 493.4 | 502.1 | 510.8 | 519.4 | 528.8 | 539.0 | 549.1 | 559.1 | 569.2 | 576.2 |
| 65° | 426.2 | 436.0 | 445.7 | 455.6 | 465.3 | 475.4 | 485.8 | 496.2 | 506.5 | 516.9 | 524.6 |
| 67.5° | 369.8 | 380.2 | 390.6 | 401.0 | 411.4 | 422.1 | 433.3 | 444.4 | 455.5 | 466.7 | 474.4 |
| 70° | 331.3 | 341.7 | 352.1 | 362.5 | 372.9 | 383.9 | 395.5 | 407.1 | 418.7 | 430.3 | 438.6 |
| 72.5° | 293.9 | 304.5 | 315.2 | 325.8 | 336.5 | 347.9 | 360.3 | 372.6 | 385.0 | 397.4 | 405.4 |
| 75° | 236.5 | 247.8 | 259.1 | 270.4 | 281.7 | 293.8 | 306.6 | 319.4 | 332.3 | 345.1 | 353.6 |
| 77.5° | 182.9 | 194.8 | 206.8 | 218.8 | 230.7 | 243.5 | 256.9 | 270.4 | 283.8 | 297.2 | 305.9 |
| 80° | 149.9 | 162.0 | 174.3 | 186.5 | 198.7 | 211.5 | 225.0 | 238.5 | 251.9 | 265.4 | 274.5 |
| 82.5° | 116.8 | 129.6 | 142.3 | 155.0 | 167.7 | 180.8 | 194.2 | 207.7 | 221.1 | 234.5 | 243.9 |
| 85° | 72.8 | 85.7 | 98.5 | 111.3 | 124.2 | 137.5 | 151.2 | 165.0 | 178.7 | 192.5 | 201.6 |
| 87.5° | 41.0 | 53.7 | 66.4 | 79.1 | 91.8 | 105.0 | 118.5 | 132.1 | 145.6 | 159.2 | 168.2 |
| 90° | 23.5 | 36.9 | 50.3 | 63.7 | 77.1 | 90.8 | 104.9 | 118.9 | 132.9 | 146.9 | 156.4 |
| 92.5° | 27.1 | 38.1 | 49.2 | 60.3 | 71.4 | 83.9 | 97.9 | 111.9 | 125.9 | 139.9 | 149.2 |
| 95° | 44.9 | 51.2 | 57.6 | 64.0 | 70.3 | 79.9 | 92.5 | 105.1 | 117.8 | 130.4 | 139.3 |
| 97.5° | 73.6 | 84.6 | 95.6 | 106.6 | 117.5 | 123.1 | 123.4 | 123.6 | 123.8 | 124.1 | 132.2 |
| 100° | 95.7 | 105.6 | 115.5 | 125.4 | 135.3 | 138.7 | 135.5 | 132.4 | 129.2 | 126.1 | 132.5 |
| 102.5° | 121.6 | 130.0 | 138.4 | 146.8 | 155.2 | 164.3 | 174.0 | 183.7 | 193.4 | 203.1 | 191.1 |
| 105° | 160.2 | 166.9 | 173.7 | 180.5 | 187.3 | 196.6 | 208.4 | 220.2 | 232.1 | 244.0 | 252.6 |
| 107.5° | 198.4 | 203.7 | 209.1 | 214.4 | 219.7 | 228.1 | 239.5 | 251.0 | 262.3 | 273.8 | 281.8 |
| 110° | 223.2 | 227.7 | 232.4 | 236.9 | 241.6 | 249.6 | 260.9 | 272.2 | 283.6 | 295.0 | 302.2 |



TEST NUMBER: P332682-935

CATALOG NUMBER: SA4XXDIP-C1195D590U935-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 247.2 | 251.6 | 256.0 | 260.4 | 264.8 | 272.2 | 282.7 | 293.2 | 303.7 | 314.2 | 321.0 |
| 115° | 284.3 | 287.3 | 290.4 | 293.5 | 296.6 | 303.0 | 312.6 | 322.3 | 331.9 | 341.6 | 348.5 |
| 117.5° | 318.8 | 321.0 | 323.0 | 325.1 | 327.2 | 332.9 | 342.2 | 351.6 | 360.9 | 370.3 | 376.6 |
| 120° | 341.3 | 342.7 | 344.1 | 345.4 | 346.7 | 351.8 | 360.6 | 369.3 | 378.1 | 386.8 | 393.1 |
| 122.5° | 363.3 | 363.8 | 364.2 | 364.7 | 365.2 | 369.6 | 378.2 | 386.7 | 395.2 | 403.7 | 409.9 |
| 125° | 393.5 | 393.6 | 393.7 | 393.9 | 394.0 | 397.8 | 405.2 | 412.7 | 420.1 | 427.5 | 433.6 |
| 127.5° | 423.1 | 422.9 | 422.7 | 422.5 | 422.3 | 425.4 | 431.8 | 438.2 | 444.4 | 450.8 | 456.3 |
| 130° | 441.3 | 441.0 | 440.8 | 440.7 | 440.5 | 443.0 | 448.2 | 453.4 | 458.6 | 463.8 | 469.4 |
| 132.5° | 458.9 | 458.8 | 458.7 | 458.6 | 458.5 | 460.5 | 464.9 | 469.2 | 473.6 | 477.9 | 483.3 |
| 135° | 484.1 | 484.0 | 483.9 | 483.7 | 483.6 | 484.8 | 487.4 | 490.0 | 492.6 | 495.2 | 500.2 |
| 137.5° | 507.6 | 507.3 | 507.0 | 506.8 | 506.5 | 507.1 | 508.7 | 510.1 | 511.7 | 513.2 | 517.9 |
| 140° | 522.9 | 522.8 | 522.7 | 522.6 | 522.5 | 522.7 | 523.2 | 523.7 | 524.3 | 524.9 | 529.1 |
| 142.5° | 535.5 | 535.9 | 536.1 | 536.5 | 536.8 | 537.0 | 536.9 | 536.9 | 536.8 | 536.7 | 540.5 |
| 145° | 556.4 | 556.4 | 556.4 | 556.5 | 556.5 | 556.5 | 556.5 | 556.5 | 556.5 | 556.5 | 558.4 |
| 147.5° | 573.2 | 573.4 | 573.8 | 574.1 | 574.4 | 574.5 | 574.4 | 574.3 | 574.1 | 574.0 | 574.4 |
| 150° | 585.3 | 585.5 | 585.6 | 585.7 | 585.8 | 585.9 | 585.7 | 585.7 | 585.6 | 585.4 | 585.4 |
| 152.5° | 594.4 | 594.8 | 595.0 | 595.3 | 595.6 | 595.6 | 595.5 | 595.3 | 595.0 | 594.9 | 595.0 |
| 155° | 608.6 | 608.6 | 608.7 | 608.8 | 609.0 | 608.8 | 608.6 | 608.2 | 607.9 | 607.5 | 608.0 |
| 157.5° | 620.6 | 620.5 | 620.4 | 620.4 | 620.4 | 620.1 | 619.7 | 619.4 | 619.0 | 618.6 | 619.2 |
| 160° | 627.7 | 627.3 | 627.0 | 626.7 | 626.4 | 626.1 | 626.0 | 625.9 | 625.8 | 625.7 | 626.4 |
| 162.5° | 634.0 | 633.5 | 633.1 | 632.7 | 632.3 | 632.1 | 631.9 | 631.8 | 631.7 | 631.6 | 632.2 |
| 165° | 641.9 | 641.4 | 640.8 | 640.2 | 639.7 | 639.5 | 639.5 | 639.5 | 639.5 | 639.5 | 640.3 |
| 167.5° | 648.2 | 647.6 | 647.0 | 646.5 | 645.9 | 645.6 | 645.6 | 645.5 | 645.4 | 645.3 | 646.4 |
| 170° | 651.8 | 651.1 | 650.4 | 649.8 | 649.1 | 648.8 | 648.9 | 649.0 | 649.2 | 649.3 | 650.1 |
| 172.5° | 654.1 | 653.4 | 652.8 | 652.1 | 651.5 | 651.2 | 651.3 | 651.4 | 651.5 | 651.6 | 652.6 |
| 175° | 656.7 | 656.0 | 655.3 | 654.7 | 654.0 | 653.8 | 653.8 | 654.0 | 654.1 | 654.2 | 655.1 |
| 177.5° | 657.8 | 657.2 | 656.6 | 656.0 | 655.4 | 655.1 | 655.3 | 655.5 | 655.7 | 655.8 | 656.6 |
| 180° | 656.7 | 656.7 | 656.7 | 656.7 | 656.7 | 656.7 | 656.7 | 656.7 | 656.7 | 656.7 | 656.7 |



TEST NUMBER: P332682-935

CATALOG NUMBER: SA4XXDIP-C1195D590U935-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 | 1227.8 |
| 2.5° | 1223.5 | 1225.2 | 1226.9 | 1227.6 | 1227.4 | 1227.1 | 1226.9 | 1226.7 |
| 5° | 1220.3 | 1222.7 | 1225.1 | 1226.2 | 1225.9 | 1225.6 | 1225.3 | 1225.0 |
| 7.5° | 1213.8 | 1216.5 | 1219.3 | 1220.5 | 1220.1 | 1219.9 | 1219.5 | 1219.3 |
| 10° | 1207.1 | 1209.9 | 1212.6 | 1213.8 | 1213.6 | 1213.2 | 1212.9 | 1212.6 |
| 12.5° | 1197.8 | 1200.3 | 1202.8 | 1204.1 | 1204.0 | 1203.9 | 1203.9 | 1203.9 |
| 15° | 1181.0 | 1183.8 | 1186.5 | 1187.7 | 1187.4 | 1187.1 | 1186.8 | 1186.5 |
| 17.5° | 1160.5 | 1163.3 | 1166.1 | 1167.4 | 1167.2 | 1166.9 | 1166.7 | 1166.4 |
| 20° | 1144.5 | 1147.5 | 1150.6 | 1152.1 | 1152.1 | 1152.1 | 1152.1 | 1152.1 |
| 22.5° | 1125.8 | 1128.9 | 1131.9 | 1133.7 | 1134.2 | 1134.6 | 1135.1 | 1135.7 |
| 25° | 1097.0 | 1100.4 | 1103.7 | 1105.5 | 1105.9 | 1106.1 | 1106.5 | 1106.7 |
| 27.5° | 1064.6 | 1067.7 | 1070.8 | 1072.5 | 1073.0 | 1073.3 | 1073.7 | 1074.0 |
| 30° | 1042.0 | 1045.3 | 1048.7 | 1050.7 | 1051.3 | 1051.9 | 1052.5 | 1053.2 |
| 32.5° | 1018.7 | 1022.6 | 1026.5 | 1028.7 | 1029.3 | 1029.9 | 1030.5 | 1031.1 |
| 35° | 982.0 | 986.2 | 990.5 | 993.1 | 994.0 | 995.0 | 995.8 | 996.8 |
| 37.5° | 943.6 | 947.9 | 952.3 | 954.9 | 955.9 | 956.8 | 957.9 | 958.8 |
| 40° | 916.5 | 921.2 | 925.7 | 928.7 | 929.9 | 931.1 | 932.3 | 933.5 |
| 42.5° | 890.0 | 895.1 | 900.2 | 903.2 | 904.2 | 905.2 | 906.1 | 907.1 |
| 45° | 849.0 | 854.3 | 859.5 | 862.8 | 864.4 | 865.8 | 867.4 | 868.9 |
| 47.5° | 805.7 | 811.1 | 816.5 | 820.0 | 821.9 | 823.7 | 825.5 | 827.4 |
| 50° | 775.2 | 781.4 | 787.5 | 791.4 | 793.3 | 795.1 | 796.9 | 798.7 |
| 52.5° | 744.5 | 750.6 | 756.6 | 760.7 | 762.5 | 764.3 | 766.1 | 768.0 |
| 55° | 698.3 | 704.4 | 710.5 | 714.5 | 716.3 | 718.2 | 720.0 | 721.8 |
| 57.5° | 649.7 | 657.0 | 664.3 | 668.7 | 670.5 | 672.2 | 673.9 | 675.6 |
| 60° | 616.2 | 623.3 | 630.3 | 635.0 | 637.5 | 639.9 | 642.4 | 644.8 |
| 62.5° | 583.2 | 590.3 | 597.3 | 602.0 | 604.5 | 606.9 | 609.3 | 611.8 |
| 65° | 532.2 | 539.8 | 547.5 | 552.5 | 555.0 | 557.4 | 559.9 | 562.3 |
| 67.5° | 482.2 | 489.9 | 497.7 | 502.7 | 505.1 | 507.5 | 509.9 | 512.3 |
| 70° | 446.9 | 455.0 | 463.3 | 468.6 | 470.6 | 472.8 | 474.9 | 477.1 |
| 72.5° | 413.4 | 421.4 | 429.4 | 434.5 | 437.0 | 439.3 | 441.7 | 444.1 |
| 75° | 362.2 | 370.7 | 379.3 | 385.0 | 387.7 | 390.5 | 393.2 | 396.0 |
| 77.5° | 314.6 | 323.3 | 331.9 | 337.8 | 340.7 | 343.6 | 346.6 | 349.5 |
| 80° | 283.7 | 292.8 | 302.0 | 307.8 | 310.2 | 312.7 | 315.1 | 317.6 |
| 82.5° | 253.4 | 262.8 | 272.2 | 278.3 | 280.9 | 283.6 | 286.3 | 289.0 |
| 85° | 210.8 | 220.0 | 229.1 | 235.2 | 238.3 | 241.3 | 244.4 | 247.5 |
| 87.5° | 177.2 | 186.1 | 195.1 | 201.0 | 203.7 | 206.5 | 209.2 | 211.9 |
| 90° | 165.9 | 175.5 | 184.9 | 191.1 | 193.7 | 196.4 | 199.1 | 201.7 |
| 92.5° | 158.4 | 167.7 | 177.0 | 182.9 | 185.4 | 187.9 | 190.4 | 192.9 |
| 95° | 148.3 | 157.1 | 166.0 | 171.9 | 174.8 | 177.6 | 180.5 | 183.4 |
| 97.5° | 140.2 | 148.3 | 156.4 | 161.7 | 164.5 | 167.2 | 170.0 | 172.7 |
| 100° | 138.9 | 145.3 | 151.7 | 156.0 | 158.3 | 160.5 | 162.7 | 165.0 |
| 102.5° | 179.1 | 167.0 | 155.1 | 150.2 | 152.7 | 155.1 | 157.5 | 159.9 |
| 105° | 261.2 | 269.8 | 278.4 | 282.1 | 280.5 | 279.1 | 277.6 | 276.1 |
| 107.5° | 289.8 | 297.8 | 305.8 | 311.1 | 313.7 | 316.3 | 318.9 | 321.6 |
| 110° | 309.4 | 316.7 | 323.9 | 329.0 | 331.7 | 334.5 | 337.3 | 340.0 |



TEST NUMBER: P332682-935

CATALOG NUMBER: SA4XXDIP-C1195D590U935-4F0-1E-UDD-D

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 327.7 | 334.4 | 341.1 | 345.9 | 348.8 | 351.7 | 354.6 | 357.4 |
| 115° | 355.5 | 362.5 | 369.4 | 373.9 | 376.1 | 378.2 | 380.3 | 382.5 |
| 117.5° | 382.9 | 389.3 | 395.5 | 399.9 | 402.3 | 404.7 | 407.1 | 409.5 |
| 120° | 399.5 | 405.8 | 412.2 | 416.4 | 418.6 | 420.9 | 423.1 | 425.3 |
| 122.5° | 416.2 | 422.4 | 428.7 | 432.7 | 434.8 | 436.8 | 438.8 | 440.7 |
| 125° | 439.7 | 445.9 | 452.0 | 456.1 | 458.0 | 459.9 | 461.8 | 463.8 |
| 127.5° | 461.8 | 467.2 | 472.6 | 476.3 | 478.3 | 480.3 | 482.2 | 484.2 |
| 130° | 475.0 | 480.6 | 486.3 | 490.0 | 491.8 | 493.6 | 495.5 | 497.3 |
| 132.5° | 488.6 | 494.0 | 499.4 | 502.9 | 504.6 | 506.4 | 508.2 | 509.9 |
| 135° | 505.4 | 510.5 | 515.6 | 519.2 | 521.2 | 523.2 | 525.3 | 527.4 |
| 137.5° | 522.6 | 527.3 | 532.0 | 535.1 | 536.6 | 538.0 | 539.5 | 541.0 |
| 140° | 533.4 | 537.7 | 542.0 | 545.0 | 546.6 | 548.3 | 549.9 | 551.6 |
| 142.5° | 544.2 | 547.9 | 551.6 | 554.1 | 555.5 | 556.8 | 558.1 | 559.4 |
| 145° | 560.3 | 562.3 | 564.2 | 565.9 | 567.4 | 568.8 | 570.2 | 571.7 |
| 147.5° | 574.7 | 575.1 | 575.4 | 576.1 | 577.1 | 578.2 | 579.4 | 580.4 |
| 150° | 585.4 | 585.4 | 585.4 | 585.5 | 585.6 | 585.7 | 585.8 | 585.9 |
| 152.5° | 595.2 | 595.4 | 595.6 | 595.6 | 595.6 | 595.5 | 595.4 | 595.4 |
| 155° | 608.4 | 608.8 | 609.2 | 609.3 | 609.0 | 608.6 | 608.4 | 608.0 |
| 157.5° | 619.7 | 620.4 | 620.9 | 620.9 | 620.4 | 619.7 | 619.2 | 618.6 |
| 160° | 627.0 | 627.7 | 628.4 | 628.4 | 627.7 | 627.0 | 626.4 | 625.7 |
| 162.5° | 632.9 | 633.5 | 634.2 | 634.2 | 633.4 | 632.7 | 632.0 | 631.2 |
| 165° | 641.2 | 642.0 | 643.0 | 642.9 | 641.9 | 640.9 | 640.0 | 638.9 |
| 167.5° | 647.3 | 648.2 | 649.2 | 649.1 | 648.1 | 647.0 | 645.8 | 644.8 |
| 170° | 651.0 | 651.9 | 652.8 | 652.6 | 651.6 | 650.5 | 649.4 | 648.3 |
| 172.5° | 653.4 | 654.3 | 655.1 | 655.0 | 653.8 | 652.6 | 651.4 | 650.2 |
| 175° | 656.2 | 657.1 | 658.1 | 658.0 | 656.7 | 655.3 | 654.0 | 652.7 |
| 177.5° | 657.3 | 658.0 | 658.7 | 658.5 | 657.5 | 656.4 | 655.3 | 654.3 |
| 180° | 656.7 | 656.7 | 656.7 | 656.7 | 656.7 | 656.7 | 656.7 | 656.7 |

(END OF REPORT)